PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: see form PCT/ISA/220				PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
				(PCT Rule 43 <i>bis</i> .1)			
·				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below			
!	national application T/GB2004/00541		International filing date (d	Priority date (day/month/year) 31.12.2003			
			both national classification 2, B01D63/02, B01D6				
1	Applicant SMARTMEMBRANE CORP						
This opinion contains indications relating to the following items:							
Box No. I Basis of the opinion							
	☐ Box No. II	Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial appli				e step and industrial applicability			
☐ Box No. IV Lack of unity of invention					•		
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industria applicability; citations and explanations supporting such statement						
	Box No. VI ■	Certain docum	ents cited				
	☐ Box No. VII		s in the international app				
	☑ Box No. VIII	Certain observ	ations on the internation	al application			
2.	E. FURTHER ACTION						
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further optio	ns, see Form PC	CT/ISA/220.				
3.	For further details, see notes to Form PCT/ISA/220.						

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 **Authorized Officer**

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/005415

JAPZO Rec'd PCTIPTO 29 JUN 2006

			Partition of the contract of t		
	Box	No. I	Basis of the opinion		
1.			d to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.		
	li	angua	pinion has been established on the basis of a translation from the original language into the following tige—, which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).		
2.			to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:		
	a. type of material:				
		a s	equence listing		
		tab	le(s) related to the sequence listing		
	b. format of material:				
		in v	vritten format		
		in c	computer readable form		
	c. time of filing/furnishing:				
		con	tained in the international application as filed.		
		filed	together with the international application in computer readable form.		
		furr	nished subsequently to this Authority for the purposes of search.		
3.	h	as be opies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as were furnished.		
4.	Additional comments:				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

49,50

No:

Claims

1-48,51

Inventive step (IS)

Yes: Claims

49.50

No: Claims 1-48,51

Industrial applicability (IA)

Yes: Claims

1-51

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/005415

Re Item V:

- 1 Reference is made to the following document:
 - D1: US 5 202 023 A (JOHNNY L. TRIMMER ET AL.) 13 April 1993 (1993-04-13)
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1, 28, 31, 42 and 51 is not new in the sense of Article 33(2) PCT.
 - Document D1 discloses (see in particular the passages as indicated in the international search report) a method and a module (system) of/for separating air into nitrogen and oxygen enriched fractions using a plurality of strands of hollow fibre separation membrane wound around a core, where a pressure difference of less than 30 psi is applied.
- 3. The subject-matter of dependent claims 2-27, 29, 30, 32-41, 43-48 is evenly disclosed in document D1 (see the same passages in particular). Their subject-matter is not new in the sense of Article 33(2) PCT.

Re Item VI:

Certain published documents

Application No Patent No	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
EP-A-1442783	04.08.2004	16.01.2004	17.01.2003

Re Item VIII:

Although claims 28, 31 and 51 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and/or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/005415